# Imperial Railways of North China.

Report for the Year ended 31st December, 1910.

Published for circulation by order of the Directors.

# Imperial Railways of North China.

# GENERAL REPORT.

The Directors submit the following report with particulars of the main features of the working of the railways during the year 1910.

The Earnings and Expenditure of the railways, summarised and compared with the previous year, are as follows:-

s follows:—	Year ended 8	31st December
	1909	1910
Earnings	\$ 11,370,711.22 3,653,648.45	\$ 10,928,242.31 3,474,187.35
Balance after paying Working Expenses	\$ 7,717,062.77	\$ 7,454,054.96
Ratio of Working Expenses to Earnings	32.1%	31.7%

The reduction in earnings has been due entirely to causes beyond the control of the railway authorities. Owing to a shortage of food supplies in districts north of the Great Wall, all exports of grain from this zone were prohibited. However, towards the end of the year, the restriction was withdrawn. The earnings of the district inside the Great Wall also suffered through a large reduction in the tonnage of tribute rice sent by provinces in South China to Peking. Other factors also contributed to the reduction but in a lesser degree.

Mileage—There has been no change in the number of miles of main line open to traffic.

Loans—The annual amortisation of the Imperial Chinese Railways 5% Gold Loan of 1899 took place on 1st August, 1910, when the Sixth Annual Drawing reduced the loan by £ 57,500 to £ 1,955,000. The half yearly payments in reduction of the South Manchuria Railway Gold Loan have also been met according to schedule.

Exchange—The monthly remittances to London for repayment of Loan Capital and Loan Interest were made at the average rate of 2/69/16 per Tientsin Tael.

Engineer-in-Chief-Mr. D. Poyntz Ricketts took over his new duties on 3rd February, 1910.

Staff-The Directors thanks the Staff for their hearty co-operation during the year.

Loo Etong, Managing Director Shu Yin Chi, Director

# IMPERIAL RAILWAYS OF NORTH CHINA.

# STATEMENT OF ACCOUNTS

FOR THE YEAR ENDED 31st DECEMBER, 1910.

### No. 1

# Capital Authorised and Created.

	1	Capital Autho	rised		Capital Creat	ed		Balance	
DETAILS	Stock and Shares	Loans	Total	Stock and Shares	Loans	Total	Stock and Shares	Jai	
mperial Chinese Govern-)	S	1 8	S	S	S	S	\$	\$	-
mant and Chinasa Share-	21,994,428.57	-	21,994,428.57	21,994,428.57	_	21,994,428.57			S
nder Loan Agreement) 899, £ 2,300,000	-	27,600,000.00	27,600,000.00		27,600,000.00	27,600,000.00			
greements, South Man- luria Rly. Loan, 1909.	-	377,142.86	377,142.86	_	377,142.86	377,142.86			
s  21	,994,428.57	7,977,142.86	19,971,571.43 2	1,994,428.57	27,977,142.86	49,971,571.43			-

# No. 2 Stock and Share Capital Created Showing Proportion Issued.

	Amount Created	Amount Issued	Amount Unissued
Imperial Chinese Government and Chinese Shareholders	\$ 21,994,428.57	\$ 21,994,428.57	\$
s	21,994,428.57	21,994,428.57	

### No. 3

# Capital Raised by Debenture Stock.

Imperial Chinese 5% Railway Loan, 1899 (original amount of Loan £ 2,300,000).		S
Existing at 31st December 1909  Bonds of Sixth Drawing poid off	£ 2,012,500	24,150,000
baid off		690,000
	£ 1,955,000	23,460,000
which there was invested in the Hongkong & Shanghai Bank, London, at 31st December, 1909		2,546,415.1 738,453.0
Leaving invested in the Hongkong & Shanghai Bank, London, at 31st December, 1910	£ 150,663.10.2	1,807,962.1
Ith Manchuria Railway Loan, 1909, (original amount of Loan G. Yen 320,000.00)  Existing at 31st December, 1910.  G. Yen 302,222.24		

# No. 4 Receipts and Expenditure on Capital Account.

Dr.

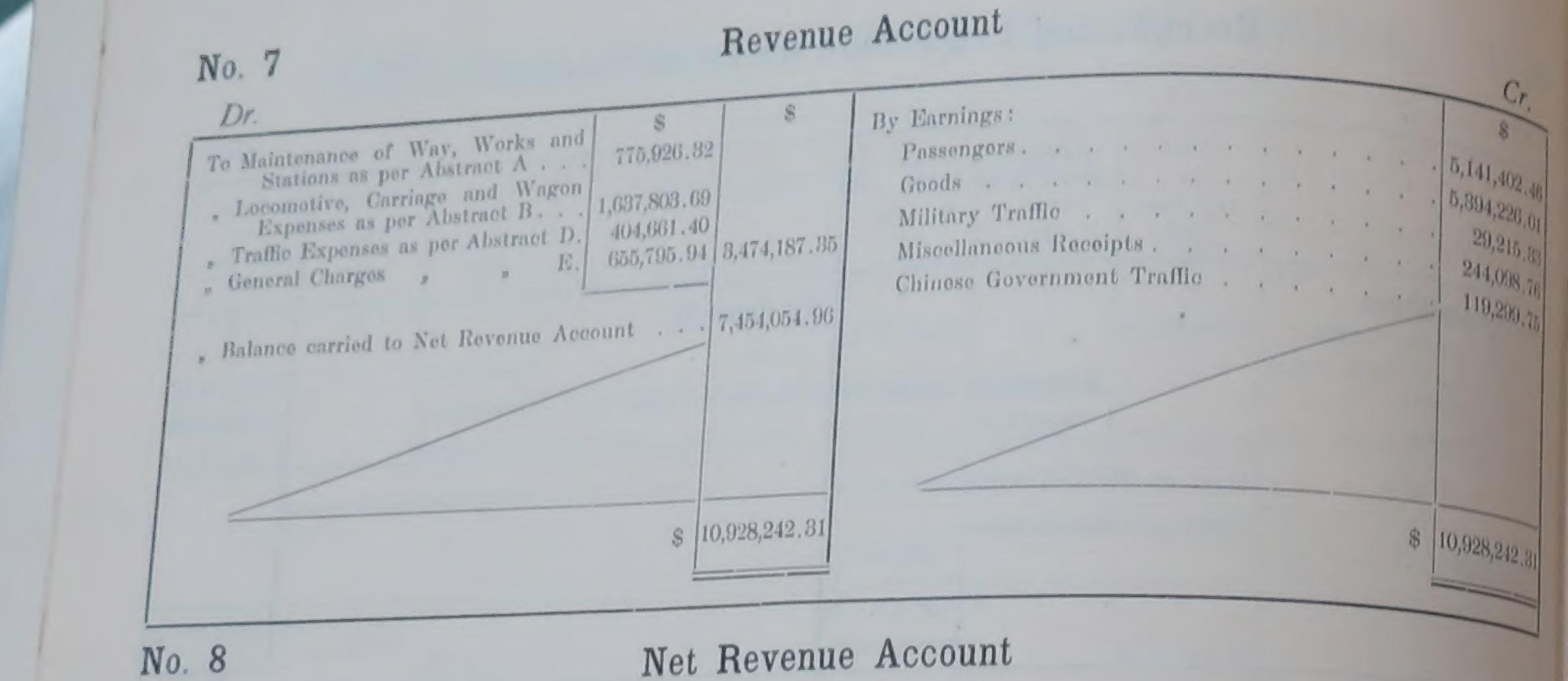
	Total to 31st Dec. 1909	Amount expended in Year 1910	Total to Sist Dec. 1910		Total to Bist Dec. 1900	Vear 1910	Total to Blat Dao 1010
To Expenditure Lines open for Traffic Authorised by High Court of Chancery	\$ 47,245,485.01		\$ 47,245,485.01 1,189,128.98 264,000.00	Debenture Stock	27,600,000.00		21,004,428.57 27,600,000,00 877,142.86
Balance			48,648,608.99 1,322,962.44 49,971,571.48				8 49,971,571.4

# No. 5 Details of Expenditure on Capital Account.

Land and Earthworks	*	,			×									į.			i				v			114,354.05
Rolling Stock																							-	181,779.68
Tongshan Works																								23,797.41
Shanhaikwan Bridge Works																								141,799.05
New Head Office Buildings.																								199,542,90
Stations																								60,062,47
Bridges			P		0	۰	0	-0	0	*	0	۰	0			•	۰	v	e	0	0	٠	2	92,694,16
Miscellaneous				*					9		٠	0		2	P	*			0	*	¢		4	
																							8	1,189,128.98

# No. 6 Expenditure on Capital Works paid for from Revenue.

Betterments to:	8
Tongshan Engineering College. New buildings & equipment	76,466.25
Hsinminfu — Mukden Line — East of Liao River Section	49,668.71
Expended during Current Year	126,134.96
Expended in Previous Years	8,777,450,33
\$	8,903,585.29



	1400 240	
Dr.		Cr.
To Debenture Loan, Sixth instalment repaid.  Interest  Chinese Shares, Interest  S.M.R. Loan, part capital repaid  Interest  Interest  Aliang Prospects  Shipping Department  Tongshan College, Upkeep  Bonus to Employees  Betterments, being amount taken from Reven for Capital Works  Balance	25,081.48 20,793.62 18,458.72 4,068,183.37 6,459.90 18,399.87 71,988.71 187,014.68	5,641,858
	\$ 13,095,412.98	18,095,412.1

Dr.	General Ba	lance Sheet	
Capital Account, Balance per No. Salaries and Wages due Sundry Creditors B.R.A. Balance taken over Net Revenue A/c. Balance at Credi	215,996.26 94,287.93 3,293,107.44 6,745,886.26	Revenue Funds, on Deposit Rect. £ 40,000	1,199,879.4 262,578.6 2,496,786.6 269,085.8 3,072,815.7 1,167,860.5 375,708.4 488,909.1 530,708.8
	8 111.672.240 22		APR 040 99

No. 9

Wm. Henderson, C. A.,

Chief Accountant

# ABSTRACTS.

# A. Maintenance of Way, Works and Station.

Year o	ending										15 Months 31st Decemb	ending ber, 1900
\$	\$ 174,403.29		Sala	ries, Off	lce Exp	penses and Genera	1 Supe	rintende	ance		8	\$ 246,992.11
298,007.08 228,806.98	521,814.01		lainte	nance	and I	Renewal of Pe	rman	ent W	ay:-		408,478.78	657,561.02
12,997.21 Cr. 5,488.98	7,568.28	n 0	0	,	Rep	airs of Bridge Wages Materials	<b>8</b> \$.	6			49,586.24 60,214.10	109,800.3
\$	72,645.74			Repai	rs of	Stations and	Buile	dings.			\$	57,559.1

### B. & C. Locomotive Power and Rolling Stock Repairs.

Year e	and the state of t											15 Months 31st Decemb	
\$	8											s	s
	180,542.21		Salar	ries, Of	lice Ex	penses and Gene	eral Super	intend	ence				175,247.50
					R	unning Expen	ses						
150,887.48 447,862.20 48,886.45 61,866.77	708,502.85	ø ø	Con. Wat	er .		with working		e Eng	ines	*	0	178,017.17 607,952.37 53,326.01	
01,000.11		Mainten				val of Locon		and I	Machin	erv -	_ ' -	67,988.21	907,283.76
293,853.05 150,756.56	444,609.61			9		. Wages . Materials		,				441,052.83 281,844.03	722,396.8
				Rep	airs a	and Renewal	s of Ca	rs:			-		122,000,0
61,855.86 62,480.67	124,886.08		,	*		Coaching Vehicle Wages Materials Goods Vehicle	les:					62,951.87	126,071.0
61,748.98	165,210.61		0	0	8	. Wages . Materials	,	0.		0		97,993.38 137,026.89	
	1,625,050.00		,	ø	Cleani	ng Carriages ar	nd Oiling	,	ė			,	66,688.
1	12,758.69 1,637,803.69			ā	Stear	n Ferry at Nev	vehwang				e		2,232,707 22,098
												. \$	2,254,806

# D. Traffic Expenses.

Year ending 31st December, 1910								31st December, 19
\$   \$				General Superintendence .			+	111,943.20
82,719.37				The was of Station Sunt	*			440,046 00
207,844.40	*			TAX - VE I BUILD SHALL				1 (2) 1135 27
60,716.99	*			Lighting and Small Stores Wagon Covers, Ropes, etc.	i.			57,200.64
46,949.06				Station Fittings and Furniture		*		5,177.63
6,431.58	*	-	9	Station				
404,661.40								495,40

#### E. General Charges.

Year ending 31st December,	1910							15 Month 31st Decen	s ending nber, 1909
\$ 274,834,46 66,519,92 91,352,71 45,497.97 10,005.70 106,371.81 117,156.81 68,708.51 2,659.57 54,627,89 37,735.35 181,939.41 655,795	.94		General Superint Accountant's De Stores Departme Medical Departm Rents of Buildin Police Telegraph Depar Stationery and F Compensation Sundries Interest, &c.	partmen nt. ent gs and l	Lands		Cı	\$ 332,208.75 78,206.01 42,526.10 60,353.28 12,947.37 149,658.39 156,458.99 55,887.66 2,858.66 43,724.85 934,830.06 202,943.83	

#### EARNINGS.

Year end 31st Decemb	ding er, 1910						15 Months 31st Decem	
\$ 5,141,402,46 5,394,226,01 29,215,33 244,098,76 119,299,75	\$		Passengers . Goods . Military Traffic . Miscellaneous Receipts Chinese Government Tra	affic.	*		\$ 6,043,572.71 7,532,638.01 46,920.27 414,605.84 307,464.91	\$
10,95	28,242.31						1	4,345,201.7

#### AUDITOR'S CERTIFICATE.

The accounts for the year ended 31st December, 1910, as stated, contain, in my opinion, a full and true statement of the financial condition of the Railway, and the revenue has, in my judgment, been charged with all expenses which ought to be paid thereout. The interest and redemption of the Loan during the year have been fully met.

Tientsin, 23rd February, 1911.

A. F. Algie,

### ENGINEER-IN-CHIEF'S CERTIFICATE.

I hereby certify that the Permanent Way, Bridges, Stations and other Buildings have been maintained in good order during the year 1910.

Tongshan, 21st January, 1911.

D. Poyntz. Ricketts,

Engineer-in-Chief.

#### LOCOMOTIVE SUPERINTENDENT'S CERTIFICATE.

I hereby certify that the Plant, Engines, Cars, Machinery and Tools have been maintained in good repair.

Tongshan, 28th December, 1910.

F. A. Jamieson,

Locomotive Superintendent.

# REPORT ON PERMANENT WAY DEPARTMENT.

Main line								602.80	Miles.
Sidings nermans	nt				1分は、1分生				
Increase of Siding permane temporar	gs, nt 4.58 in y 0.06 de	creased		×		Nett	Total	4.52	99
187,487 New Slee 28 Rails old secti	pers have on 60 lb.	been cl have be	nanged. en chai						
13 Rails 85 lb. ha 12 Rails new sect 0.62 mile of old s	ion 60 lb.	have b	een cha	anged.	ave bee	n repla	aced by	new see	ction 60 lb.
5,209 fangs of Bal 4,640 fangs of Bal	last for me	aintenai w work	ce has	been	used.				
5,355 Floor ties ha	ive been i	renewed							

#### New Bridges Completed:-

No. 21 (East of Tongku) 100-10 feet spans Timber beams have been replaced by steel. Tientsin Station Footbridge extended I span 39 feet, and I span 69 feet 6 inches, with one extra ramp. Tientsin City Station Subway has been extended to allow for three more tracks, 1 span 21'6" and 1 span 12'6". Bridge No. 180 has been extended 2 spans of 12 feet. Bridge No. 180 old piers and abutments raised 3'1". Bridge No. 181 has been extended 1 span of 12 feet. Old piers and abutments raised 3'9". Bridge No. 215A 1 span of 12 feet replacing culvert at Milepost 110.3250. Bridge No. 233 has been extended 2 spans of 20 feet. Bridge No. 16A 4 spans of 10 feet Bridge No. 19A 6 spans of 10 feet on Hsinminfu line. Bridge No. 52 23 spans of 30 feet 5,118 fangs of rubble has been used for protective work. 2,163 fangs

#### Platforms Extended:-

Tientsin City Station, 1,175 feet timber wall has been replaced by masonry, and a 2,350 feet new masonry wall has been built.

Changchuang Station, 100 feet timber loading dock wall has been replaced by masonry. Wanchuang Station, 200 feet timber loading dock wall has been replaced by masonry.

201,425 fangs of Earthwork executed:-

Chienmen New Post Office Fengtai Quarters for Train Electric Light Staff Fengtai Train Shed and Boiler House Tientsin City Station, 2 Official and First Class Wait Tientsin Level Crossing Gate House Hsinho New Police Quarters	ing	Roo	6	34,558	do
Fengtai Quarters for Train Electric Light Stan Fengtai Train Shed and Boiler House Tientsin City Station, 2 Official and First Class Wait Tientsin Level Crossing Gate House Heigho New Police Quarters	ing	Roo	6	34,558	do
Fengtai Train Shed and Boiler House.  Tientsin City Station, 2 Official and First Class Wait Tientsin Level Crossing Gate House  Heipho New Police Quarters	ing	Roo	•	34,000	
Tientsin City Station, 2 Official and First Class Walt Tientsin Level Crossing Gate House	ing	Troc	Ills	4.032	40.40
Tientsin Level Crossing Gate House	2				do
Heinho New Police Quarters				120	do
A ANDRESS MICHAEL MICH	- 4		9	696	do
Tongku Office leased to Shansi Anthracite Company			,	1,248	do
Cabin No. 20 (East of Tongku) enlarged			0	7 4343	do
Tongshan 2 Signal Cabins		,	2	832	do
Tongshan Private Car Shed			0	1,000	do
Shanhaikwan Engineers' Office			(A	1,044	do
Extension of Bridge Works, Manager's Office				478	do
New Boiler House and alteration to Fitting Shop as	nd	Chin	me	y	
in Bridge Works				2,000	do
New Coal House in Bridge Works				740	do
Sarhousou Railway Police Kitchen		. ,		80	do
Ningyuanchow Engineer's Quarters Extension .	,			709	do
Ningyuanchow Coolies' Quarters Extension				80	do
Koupantzu Station Waiting Halls				2,000	do
Koupantzu Locomotive Office and Pump House.					do
Koupantzu Weigh bridge House				81	do
Chingtuitzu Station Master's House				750	do
Kaoshantzu New Station Building					
Hairminfo Station Waiting Hall (let Class)	*			500	
Hsinminfu Station Waiting Hall (1st Class)	*			130	
Yingkou Weigh bridge House			1	25 884	do
Moukden Train Shed and Quarters		2		704	
Moukden Additional Police Quarters			0	104	do
Moukden Covered Way, Traffic Inspectors Quarters			,	. 144	do

The 50 feet Turntable in Tientsin has been replaced by one 55 feet diameter.

Signals erected. Tongshan Station, Main Line and Connecting roads signals have all been interlocked.

At Tientsin, one dwarf signal has been erected.

All signals have been altered so that horizontal arm now stands for "danger", and the inclined downwards stands for "line clear".

#### Heavy Works Executed:-

Tientsin City Station (now called Tientsin Central Station). A large two-storied Administration Building is in course of construction. The Station has been widened for the junction with Tsinpu Railway. The down platform has been converted into an island platform, and a new down platform built. Three new tracks have been laid between these two platforms for use of Imperial Railways of North China trains, the Tsinpu Railway having the use of the old three tracks. A brick work Waiting Room has been built on each of these platforms, and the Subway extended, so as to serve for the new down platform.

Chienmen Station. The platform has been almost entirely roofed, the area covered being 64, 020 square feet. The roof is made of steel trusses, with corrugated iron covering and cast iron supports. The Track has been raised between Milepost 112.66 and 113.15 and a new concrete drain built.

The Track has been raised from 34.50 to 36.00 on the Hsinminfu line. Old Bridge No. 52 has been filled up, and a new bridge of 23-30 feet span has been built at No. 35.25, and 10,000 feet of dam constructed on West side of same.

The Track has been raised from Milepost No. 95.56 to No. 96.56, East of Huangti, and bridges No. 180 and No. 181 have been raised and extended.

Bank has been raised, and track has been laid from Hainminfu to bridge No. 57, and ballan. Bridges Nos. 55 and 56 have been raised and 10-20 feet spans are being added to the

Old dam from bridge No. 54 to Hsinminfu has been raised, and new dam has been constructed in front of Hsinminfu Station and extended Eastwards alongside the Railway for 3,000

#### Foreshore Protection: -

295 fangs of rubble and ballast have been used for repairs to Yingkow Bund, Wharfage, Yingkow Wharf bracing and fenders repaired.

#### Painting Executed for Maintenance:

Bridges (East of Tongku) Nos. 12, 17, 31, to 47 inclusive,

Bridges (West of Tongku) Nos. 9, 10, 11 and 14.

Bridges comprising 12-12 feet, 1-20 feet, 18-24 or 25 feet, 6-30 feet, 2-45 feet, 1-50 feet, 2-58

Bridges Nos. 133, 134 and 135.

Bridges between Chenchow and Kaoshantzu.

Bridges Nos, 316 and 317,

Tongshan Locomotive and Traffic Inspector's Quarters,

Tongku Station Fences,

Penglai Traffic and Track Inspectors' Quarters,

Shanhaikwan Bridge Work Filling Shop and Boiler House,

Shanhaikwan Bridge Work Manager's Office,

Shanhaikwan Traffic and Engineers' Staff Quarters.

Mingyuanchow Engineer's Quarters verandali.

Chanchow Blation Buildings,

Chenchow Traffic and Locomotive Staff Quarters,

Chenchow Locomotive Office, Pump House and Boiler House,

Koupantzu Engine Shed roof and Workshops,

Koupantzu Foreign Staff Quarters,

Koupantza Turntable,

Kompaniza Water Tank.

Chuliuho Engineer's and Traffic Staff Quarters and Station Building.

Monkden Traffic and Locomotive Inspectors' and Conductors' Quarters.

Yingkow Lacomotive Office and Shed,

Yingkow Forry Bout and Pontoons,

Ymgkow Pontoon Bridges,

Yingkow Engineers' Office and Inspectors' Quarters.

All signal arms, station name posts, all mile and gradient stones, bridges, numbers, etc.

#### Water Supply Works ;-

Tongho, May 10 feet tank erected for watering engines,

Knyah, Naw micklined wall sunk,

Lutal. New 10 feet tank erected for watering engines and supplied from main tank through

Tongku, New 10 feet tank erected for watering engines and supplied from main tank through n 4 mon mon

Tongky, New water erang greeted and supplied from new tank through an 8 inch pipe, Fongtai, New 10 fast tunk arested and an 8 feet well sunk to supply train shed,

#### Work in progress

Tientsin. Reserrangement of Goods Yard. Bridge No. 21 (Bust of Tongku) elenring up material. Tientsin City Mintion Junction. Tientsin City Station, New Administration Offices, Raising Bank from Bridge No. 57 to Chulinho. Rubble protection to dam at Hsinminfu. Rail laying and ballasting on raised bank, Hsinminto to Chuliuho. Adding 10 spans of 30 feet to Bridge No. 50. Raising platforms of Hsinminfu and Chuliuho Stations.

#### Rainfall and Floods :-

Fongtai 18 inches, Tongku 22 inches, Lanchow 24 inches, Shanhaikwan 331/s inches, Ningyuanchow 27% inches, Konpantzu 25% inches, Chulluho 25% inches, Monkden 23% inches, and Yingkow 15%/s inches.

After two previous floods which passed without damage in the Hainminfu District, heavier rains were later experienced, and on August 22nd the Linho again became flooded and stopped the native dam North of the Haliminfo Station, breaching it in many places;

thus flooding Hsinminfu Station to a depth of 2 feet above the rails.

Two washouts, each of about 100 feet occurred in the Hallway bank East of Hsimminfu Station. Through traffic had to be suspended for two days, passengers being transhipped at the washouts. Owing to this flood, the town of Hsinminfo suffered greatly, most of it being under water for several days; and about 1,000 houses collapsed. Nine inches of silt was deposited all over the station yard at Haluminfu, otherwise the railway did not suffer to any great extent. The Liulio again rose on Meptember 1st., and the station yard was again flooded, but traffic was not delayed. The dam at Hsimminfo now practically completed, except for rubble protection, and the raising of the line from Hsinminfa to Challaho, should ensure the Railway being immune from danger of floods from Liuho for some time to come.

# Shanhaikwan Bridge Works.

The tonnage of work turned out was as follows:-

#### Girdors :-

1	span 12 feet clear		ŧ	ī			ž	ı	7	t	Tons	1.	12.	1.	R.
î	span 16 feet clear	chan chan	- 1	1	1	I	1	1	1			0.	17.	1.	20,
														Î	2.
												0.,	12.	î.	
88	span 30 feet clear spans 35 feet 111, span 19 feet clear	a Inches o	Lann	thin	Sand.	1	E		1	2		11.	1.	1.	1).
1	span 19 foot clear	: Differdan	TOTAL.	17111	erdi	HIR	(1	1		-		120,	131.		0,
18	span 12 foot clear	v Differday	Ku	T.	1	1	1	1	T	1		1.	0.	2.	0.
2	spans 20 feet cles spans 35 feet 10.	1/B" clear	WILL	1911	dar	mei	lint	o p	rine	10		50,	0.	0,	
	pals for Paking Cosst Circlers for Ti		100	3 4 3 7 1								8,	18	1.	6.

Tons 208, 0, 2, 8,

Special Work, Tanks etc:-					
1 10 feet diameter × 6 feet Water Tank	. To	ns 2	. 7.	0. 2	0.
3 8 feet 10 mohes diameter × 0 feet Water Tanks .		4	. 1.	6. (	0.
1 20 feet diameter × 12 feet Water Tank	/11	6	. 10.	0 /	7
2 8 feet 10 inches diameter × 6 feet Water Tanks 3 Steel plate cylindrical oil tanks 12 feet × 2 feet	T.O.	ns z	. 13.	8, 20	3.
B inches		0	. 18	2. 21	
1 69 feet Steel Overbridge for Tientsin Station		46.	9.	1. 8	2
12 Cast Iron Columns and 48 Brackets for Tientsin City					*
Station platform Sheds		7.	4.	8. 14	
I Island platform shed 1159 feet 9-3/8 inches × 38 feet 6 inches erected at Chienmen Station		910	10		
1500 feet Gantry with 22-70 lb. rail stanchions for Fengtai		210.	19.	2. 11	
new Car Shed		16.	15.	0. 27	
3 Roof trusses made for Bridge Works new Boiler House		2.	8.	0. 4	0.
	Tons	200	0	1 10	
	a ons	000.	<i>U</i> .	1. 19	8
Miscellaneous: -					-
	***				
Ironwork to the extent of	Tons	78.	5.	7. 0.	
	-		-		
14 sets Points and Crossings	Tons	21.	17.	9 0	
	-			~. U.	
TOAL TONNAGE of Ironwork done	11	0.10	-		
	rons	018.	3.	0. 27,	
Coundary	-	-	-		-
Foundry:					
The Foundry has been fully employed upon eastings for					
points and crossings, washout pump eastings heating					
ran and engines, turntable and miscellaneous costings					
for maintenance and construction, to the extent of T	ons 2	289.	1.	0. 27.	

Improvement: -

A new boiler with boiler house has been erected in these Works.

# GENERAL REPORT OF WORK CARRIED OUT BY LOCOMOTIVE AND CARRIAGE WORKS.

		LO	CC	m	oti	ve	8.											
General overhaul																		40
The latest war and the second languages and the second sec																		
New Emgine Dune Type 2-0	-17 1	11 X (5) (42	$m_{\rm c}$	1340	1	200	6231	F 4 8 3 /	PERMIT	F 5 -	100	27 40	3300	40.00				1
New Engines built Type 4-6	3-0	Pass	eno	OF	18"	W 1	048	C	elia.	dan		2 0	184	Anis	W	•	*	0
Engines under construction	Tyr	10 4-	8-8	18	11	01	22 (	318	ymn	COL	5 6	(111	4	CHILL	er.	4	*	2.
Engines under construction	Two	10 9-	R.9	14	"	0/1	12 6	y 11	nge	T. S.	0	0	ar	ive	18	á		1.
Engines under construction	Tun	0 9	8.0	17	" "	20	" (	yII	nde	r,	3	0	ar	IVO	78	4	*	2.
Engines under construction	tho	1117	0-0	-	×	14	, (	NIII	nde	F;	4	12.	dr	ING	rn	+		65.
Locomotives equipped with	41.0	VV C	sum	gne	use	bra	ake		8	*	¥	*	*	3			*	D.
Locomotives equipped with	ung	VV G	sun	ight	nuse	he	atii	ng	app	ME	itu	S	*	4.	*	*		3.
New Doners constructed .																		1.1
Man Dollers midel constitue	OTOTE:		8	· ·														5.3
Title a stranger bern att i	8	8 8		8	8.	1 12	-	- 4										4
rum sides put m ,	9	8 4		4														1312
New tubeplates put in	*	8		9										-				19
New backplates put in									,		•							8
New set of tubes put in .					-						*		*	16	*			9.1
Smoke box renewed	,			,	*	* *	.0				*			3	*			04.
Smoke box renewed	rion	0 8	*		*	8 8	8	.8	*	*	*	*	18			*	- 10	0.
Boilers withdrawn from serv	100		*	1	*	* *	*				1		3	*	18	- 4	*	1.
Shop boilers overhauled .	*	* *	*		*	8 6		*	*		3.1						*	8,
Tenders built	8.	я к			ý.		*	9	*	4					- 10	4	-	6.
renders repaired		x x		× -	8	, ,												0.3
Tenders under construction			3.1															2.

# Steamers.

Boilers of the s.s. "Peiping" repaired.
Ferry boat "Liaotung" generally overhauled.

## Coach and Car Repairs.

	No. of	Cars sent in fo	r repairs
	Freight	Passengers	Brake Vans
At Tongshan Works .	1561	145	25
At Kaopantzu Works .	432	39	12
Total	1998	184	37

Note:—At the Running Sheds 11,257 minor repairs were effected to Cars, and 27,842 axle boxes were repacked.

	Rolling Stock Completed.  First Class Coaches Drawing Room Type
	Rolling Stock Under Construction.  Thirty ton Covered Goods
	Heating Car
	Improvement to Rolling Stock.
Private First (Buffet to 20 Tor 30 Tor No. of No. of Tarpau Number Coaches Heating Freight	Car No. 138 lengthened to 19 feet wheel base. Car No. 71 thoroughly overhauled. Class No. 116 rebuilt as a corridor car. No. 148, First Drawing Room Coaches Nos. 206, 207 had new ends fitted frames, end platforms enclosed and vestibules fitted. Cars rebuilt as 24 ton Car rebuilt with steel sills cars and wagons fitted with coupler locking pin lifting gear wagons fitted with brake lever catches lin rings fitted to 30 ton high sided cars of Coaches fitted with end platform gates selectrically fitted during year and Lighting Vans electrically fitted during year stock electrically fitted during year equipped with Standard electric light couplings  28
	Rolling Stock Withdrawn From Service.
	Engine No. 43 scrapped. Brake Van No. 9 condemned.
Chuenhan Railway.	Rolling Stock Completed for other Railways.  Second Class Coach  Third Class Coach
Taoching Railway.  Kinhan Railway.	22 feet Brake Van
	Forty Ton High Sided Cars

Igan Railway.	Thirty Ton High Sided Cars
in Railway.	Guard and Baggage Van 22 feet Brake Vans 3
	Construction Now in Progress for other Railways
Igan Railway.	Thirty Ton High Sided Cars
rin Railway.	17 inches Mogul Locomotives
uenhan Railway.	22 feet Brake Van
nton Kowloon Rai	lway.
	First Class Coaches Second Class Coaches Third Class Coaches Composite Coaches Third Class, Brake, Mail and Baggage Van. Baggage and Brake Vans  Old Rolling Stock Disposed of.  Private Car Old Mud Wagons  1 50
	24 ton High Sided
	Varnishing and Painting.
	Locomotives
	Foundry.
	Iron Castings
	Average Number of Employees.  Tongshan Works Kaopantzu Works Locomotive Sheds  1,495
	Total 4,432

# Rolling Stock Equipment at 31st December 1910.

	No. of Vehicles	Axles	Tonnage.
Freight Stock.			
10 Ton Capacity:—			
Powder Vans	6		60
Coal Cars	271		2710
Water Tanks	and the same of th		70 70
Pig Cars			10
Coal Cars	471		5652
15 Ton Capacity:—			
Ballast Cars	54		810
20 Ton Capacity:	~ 4		1.100
Flat	74		1480
Ballast	261 857		5220 17140
High Sided	4.7%		860
Covered Goods	8		160
24 Ton Capacity:-			
Flat	1		24
Ballast	65		1560
High Sided	48		1152
30 Ton Capacity:—	90		4440
Ballast	38		1140
High Sided	146		12330
Water Tanks	3		9000
Oil Tanks	41		1230
Timber	2		60
Passenger Stock.			
Imperial	3	12	
State	3	12	
Private	13	40	
Directors	1	4	
Telegraph Superintendent.	1	4	
1st Class	26	104	
3rd Class	95	160 380	
Composites	17	68	
Ordinary Buffet	7	28	
Kitchen Car	1	4	
1st Class Buffet	2	8	
Prain de 2nd Class Buffet	2	8	
Train de 1st Class Sleepers	2	8	
quipment 2nd Class Sleepers	2	8	
Luxe Quipment    1st Class Sleepers   2nd Class Sleepers   Heating and Lighting   Baggage and Brake   1st Class Sleepers   1st Class Sl	3	12	
Brake Vans.	3	12	
4 Wheel	50	100	
Miscellaneous.	16	64	
Wrecking Cars	9		

# Engines.

Passenger:— Class	4-4-0	Cylinder	17" × 24" 19" × 24" 18" × 24"	4 3 12	19
Freights:	2-6-0	Cylinder	17" × 24" 19" × 24" 16" × 24"	44 15 27	86
Shunters:-	0-6-0 $0-2-0$	Cylinder	$14" \times 24"$ $16" \times 24"$ $11" \times 16^{1/4}$ $17" \times 24"$	4	22
		T	otal Engines		127

## Tenders.

Ł	Wheel		,		0	0	0		,		,	,	,	3
5	Wheel	4.	,				0						ý	26
3	Wheel	B	ogi	е	,					,	,	*		84
							7	ot	al '	Te	nde	ers		113

# Comparative Table of Rolling Stock.

		1909	1910
Passenger Cars and Brake Vans No. of Axles		 272 964	287 1036
Freight Cars of all Classes		2811	2814
Tonnage Capacity		55900	56198
Locomotives of all Classes	0	125	127
Weight in Tons		5644	5745

#### New Machinery Erected.

#### 

### New Buildings and Repairs.

Templet Room built between bays of Car Works.

A Petrol Store built in Store Yard.

North lean-to of Saw Mill raised and end columns built.

Lean-to for Brass Foundry.

Various dwelling Houses repaired and altered.

### Electric Lighting.

New main cable erected and connected up to Car Works.

Arc lamp fitted into all bays of Car Works.

Electric light installed in Foundry, Boiler House, Time Office, Works Manager's Office.

Lighting installation and Electric plant generally maintained in order and repair.

Telephone installed in all Shop offices throughout Works.

### Miscellaneous.

Various castings for Cement Works and works executed for Lanchow Mining Company,
Tongshan Engineering College, Imperial Railways of North China Traffic and
Permanent Way Departments.

#### Staff.

A New Works Manager has been engaged during the year and considerable shop reorganization and economies have been effected.

# Traffic Department.

Train miles run for Revenue Train miles for Construction and M	laint		100					,	0	0	6	P	2,001,900 36,957
	_												2,038,857
Number of Passengers carried.  Number of Tons of Freight carried	i :	,							0	9			3,239,158 2,752,155
Passenger Mileage		n n		•	,		•				,		290,543,845 259,768,575
Total "Passenger "													
Average number of men employed including police about 110	l by 8 me	Tra	ffic	De	pai	rtm	en	t }					2,619

#### TELEGRAPH DEPARTMENT.

#### Length of Wires.

Lengu	1	U	1	V	V II	e	5.							
Tungchow and Tungchow Junction Chienmen and Yingkow (Double Wire Koupantzu and Fengtien (Double Wire Hsinminfu and Fengtien (Single Wire Tientsin City and Hsiku	es) res	(3)			•				•		•		1	37.37 4.00 27.00
												1	Miles	1346.87
Chienmen and Fengtien, and Yingko Number of Messages sent, Service.	W					٠		٠						
Number of Messages sent, Outside		•			۰		٠							2,680
													Total	164,511
Average Number of Employees  Number of Telegraph Stations  Number of Recorders in use											10	 		77
Number of Electric Staff Stations.  Number of Electric Staff Apparatus										6.		 ٠.	•	70 138

